

## CLAIMS

1. Removable container (1, 44) for collecting waste (8)  
separated by a device (12, 22, 31) of the cyclonic or  
inertial type for a waste collecting appliance of the vacuum  
cleaner type, said container having several walls (2, 4, 6,  
45a, 45b, 46, 48, 50) delimiting a storage volume (10, 54),  
among said walls are noteworthy a wall (2, 46) forming the  
base of the container (1, 44), called the base wall, as well  
as at least one wall (4, 48) provided with an opening (5,  
49), called the link wall, characterized in that:

- the base wall (2, 46) and the link wall (4, 48) are  
contiguous while presenting either a curve of one and/or the  
other wall, or an inclination between said walls,

- the opening (5, 49) of the link wall (4, 48) is located  
in immediate proximity to the zone of contiguity between  
said wall and the base wall (2, 46).

2. Removable container (1, 44) for collecting waste (8)  
according to claim 1, characterized in that it is in  
communication over an air path with the device (12, 22, 31)  
for separating waste (8) through the opening (5, 49) of the  
link wall (4, 48) when it is disposed within the aspiration  
system.

3. Removable container (1, 44) for collecting waste (8)

according to one of the preceding claims, characterized in that the internal volume (10, 54) of the waste collecting container (1, 44) for storing waste (8) is not provided with any piece, conduit, or device for waste separation.

4. Removable container (1, 44) for collecting waste (8)

according to one of the preceding claims, characterized in that it has a handle (7) situated on one of the walls other than the link wall (4, 48) and the base wall (2, 46), said handle (7) being located at the outside of the volume defined by said container (1, 44).

5. Removable container (1, 44) for collecting waste (8)

according to one of the preceding claims, characterized in that the base wall (2, 46) is substantially flat.

6. Removable container (1, 44) for collecting waste (8)

according to the preceding claim, characterized in that the link wall (4, 48) is substantially flat, said base (2, 46) and link (4, 48) walls being inclined with respect to one another by an angle ( $\alpha$ ) of between 40° And 70°.

7. Removable container (1, 44) for collecting waste (8)

according to one of the preceding claims, characterized in that it has, outside of the volume (10, 54) for the storage of waste (8), a conduit (42) for return of purified air.

8. Removable container (1, 44) for collecting waste (8)

according to the preceding claim, characterized in that said conduit (42) opens:

- at one of its ends into the link wall (4, 48),

- at the other end into the base wall (2, 46).

9. Removable container (1, 44) for collecting waste (8)

according to one of claims 7 or 8, characterized in that one part of the wall or walls (42a, 42b) of the conduit (42) is common with the walls delimiting the volume (10, 54) for the storage of waste (8).

10. Removable container (1, 44) for collecting waste (8)

according to one of the preceding claims, characterized in that it has a lid (70) disposed on the link wall (4, 48), said lid (70) having an opening (74) communicating with the opening (5, 49) of the link wall (4, 48).

11. Removable container (1, 44) for collecting waste (8)

according to the preceding claim, characterized in that the surface area of the opening (74) is between 5% and 25% of the surface area of the opening (5, 49) of the link wall (4, 48).

12. Removable container (1, 44) for collecting waste (8)

according to one of claims 10 and 11, characterized in that

the cross-section of opening (74) of the lid (70) is between 10 cm<sup>2</sup> and 25 cm<sup>2</sup>.

13. Removable container (1, 44) for collecting waste (8)

according to one of claims 10 to 12, characterized in that the lid (70) or a part of the lid (70) is mounted to pivot about an axis (72) that is spaced from the zone of contiguity.

14. Removable container (1, 44) for collecting waste (8)

according to one of claims 10-13, characterized in that the lid (70) has at least one joint (75) which is peripheral to the openings, on one and/or the other of its faces.

15. Device (12, 22, 31) for separation of waste (8) of the

inertial or cyclonic type for an electrical appliance of the vacuum cleaner type, said device (12, 22, 31) having a first

tube (38, 221) presenting an air inlet orifice (32, 34)

capable of receiving air that is aspirated and led by the tube, and an air return orifice, a screw (222, 36)

positioned in an axial manner in this first tube (38, 221),

a second tube (224, 40) having a diameter smaller than the

outer diameter of the screw (222, 36) and situated coaxially

in the extension of the first tube (38, 221), in

communication over an air path by one end to the return flow

end of the first tube and connected by its other end to the

suction group (64) by a first evacuation conduit (224, 42),  
a third tube arranged around the second tube and connected  
to the return flow end of the first tube in a manner to  
arrange between the second and the third tube a second  
5 conduit (223) for evacuation of waste toward a collecting  
container (1, 44), characterized in that the container (1,  
44) conforms to one of claims 1 to 13.

16. Device (12, 22, 31) for separation of waste according to  
the preceding claim, characterized in that the screw (222,  
10 36) and the first (38, 221), second (224, 40) and third  
tubes are substantially parallel to the link wall (4, 48) of  
the container (1, 44) for collecting waste (8).

F:\,S\seb\dubos2\Translation 10JAN02.doc